

W-2022

Seat Number

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PANKH-16

BP-504T

Pharmacognosy and Phytochemistry-II
(735504)

Total Pages : 3]

Time : 3 Hours

Max Marks : 75

Note : (1) Do not write anything on question paper except Seat No.

(2) Students should note, no supplement will be provided.

(3) All questions are compulsory.

(4) Figures to the right indicate full marks.

(5) Draw a well labelled diagram wherever necessary.

1. (a) Write the different chemical tests for alkaloids. 2
- (b) Write down physical and chemical properties of alkaloids. 2
- (c) Define Flavanoids and enlist the classification of flavanoids. 2
- (d) Define cardiac glycosides along with examples. 2
- (e) What are chemical tests for identification of volatile oils ? 2
- (f) Give the chemical test and uses of Cinnamon. 2
- (g) What is gold beater's skin test ? 2
- (h) Classify resins with examples. 2
- (i) What is the role of glycosides in plants ? 2
- (j) Give the biological source and uses of Gentian. 2

P.T.O.

2. Solve any two :

10×2=20

- (a) Define alkaloid. Give their classification in brief and explain Stass—Otto method for extraction of alkaloid.
- (b) Define Flavanoids. Write down physicochemical properties of Flavanoids and write various chemical tests for identification of flavanoids and uses of flavanoids.
- (c) Write a detailed account on Dioscorea.

3. Solve any seven from the following :

5×7=35

- (a) What are volatile oils ? Give their classification in brief and explain any one method of extraction of volatile oil.
- (b) Define Tannins. Give their classification in brief and write their applications.
- (c) Give the biological source, chemical constituents and uses of black catechu and pale catechu.
- (d) Give the biological source, chemical constituents and uses of colophony and myrrh.
- (e) Define glycosides. Give their classification along with an example.
- (f) Give the biological source of senna. How will you differentiate between Alexandrian and Indian senna ?

- (g) Define and classify carotenoids and give their properties.
- (h) Write biological source and methods of isolation and analysis of caffeine.
- (i) Write the importance of Digoxin in the treatment of CVS diseases. How is digoxin isolated and estimated ?